09/288,556

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptau121rlr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	DEC 08	INPADOC: Legal Status data reloaded
NEWS 5	SEP 29	DISSABS now available on STN
NEWS 6	OCT 10	PCTFULL: Two new display fields added
NEWS 7	OCT 21	BIOSIS file reloaded and enhanced
NEWS 8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9	NOV 24	MSDS-CCOHS file reloaded
NEWS 10	DEC 08	CABA reloaded with left truncation
NEWS 11	DEC 08	IMS file names changed
NEWS 12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS 13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14	DEC 17	DGENE: Two new display fields added
NEWS 15	DEC 18	BIOTECHNO no longer updated
NEWS 16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS 17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19	DEC 22	ABI-INFORM now available on STN

NEWS EXPRESS	DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

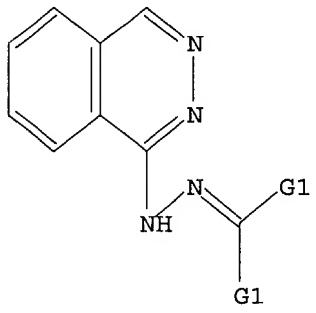
Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 18:57:08 ON 07 JAN 2004

```
=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'REGISTRY' ENTERED AT 18:57:19 ON 07 JAN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     5 JAN 2004  HIGHEST RN 634558-38-6
DICTIONARY FILE UPDATES:    5 JAN 2004  HIGHEST RN 634558-38-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading 087951.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
```




```
G1 C,H


Structure attributes must be viewed using STN Express query preparation.


=> s l1 sss full
FULL SEARCH INITIATED 18:58:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1979 TO ITERATE

100.0% PROCESSED    1979 ITERATIONS                          288 ANSWERS
SEARCH TIME: 00.00.01

L2          288 SEA SSS FUL L1
```

```
=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.84     156.05

FILE 'CAPLUS' ENTERED AT 18:58:31 ON 07 JAN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 7 Jan 2004  VOL 140 ISS 2
FILE LAST UPDATED: 6 Jan 2004  (20040106/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s l2 and stabilized
           162 L2
        140641 STABILIZED
             2 STABILIZEDS
        140643 STABILIZED
                  (STABILIZED OR STABILIZEDS)
L3           0 L2 AND STABILIZED

=> s l2 and stability
           162 L2
        566487 STABILITY
         22108 STABILITIES
        577284 STABILITY
                  (STABILITY OR STABILITIES)
L4           7 L2 AND STABILITY

=> d l4 1-7 ibib abs hitstr

L4   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         2003:892084  CAPLUS
DOCUMENT NUMBER:          139:381497
TITLE:                    Preparation of stable hydralazine derivatives
INVENTOR(S):              Barbeau, Donald L.
PATENT ASSIGNEE(S):       USA
SOURCE:                   U.S. Pat. Appl. Publ., 26 pp., Cont.-in-part of U.S.
                          Ser. No. 87,951.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   2
PATENT INFORMATION:

     PATENT NO.       KIND  DATE           APPLICATION NO.  DATE
```

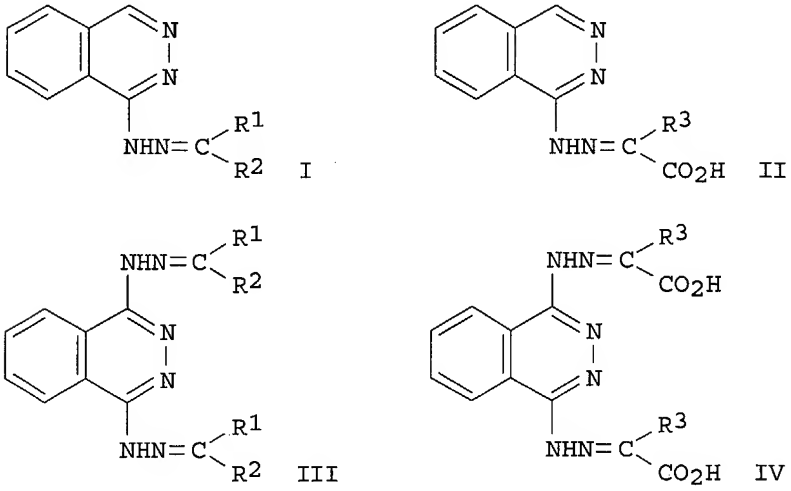
US 2003212272	A1	20031113	US 2002-306196	20021127
US 2003199512	A1	20031023	US 2002-87951	20020305
WO 2003075928	A2	20030918	WO 2003-US6521	20030304
WO 2003075928	A3	20031204		

W: AU, BR, CA, IL, IN, JP, KR, MX, NO, NZ, PH, RU
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR

PRIORITY APPLN. INFO.: US 2002-87951 A2 20020305
US 2002-306196 A 20021127

OTHER SOURCE(S): MARPAT 139:381497

GI



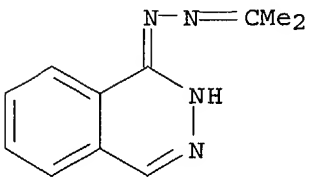
I II III IV

AB A method of improving the **stability** of a hydralazine compn. during manufg. or storage comprises coupling an N-protecting group with hydralazine to produce title compds. [I-IV; R1, R2 = H, (substituted) alkyl, aryl, cycloalkyl, aralkyl, alkylcycloalkyl, alkenyl; R1R2 = atoms to form a (substituted) C4-7 cycloalkyl; R3 = alkyl, (substituted) aryl, aralkyl, cycloalkyl, aralkyl, alkylcycloalkyl, (CH2)nCOOH; n = 1-7], were prepd. (no data). Thus, 1-hydrazinophthalazine hydrochloride and .alpha.-ketoglutaric acid were stirred overnight in H2O to give 88% 1-hydrazinophthalazine .alpha.-ketoglutarate hydrazone.

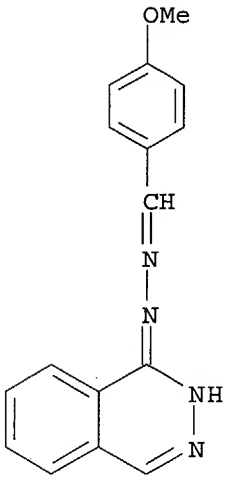
IT **56173-18-3P 61641-43-8P 67173-21-1P**
67536-13-4P 77874-88-5P 82928-49-2P
600707-30-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of stable hydralazine derivs.)

RN 56173-18-3 CAPLUS

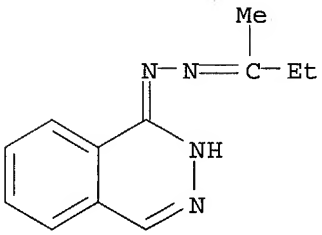
CN 1(2H)-Phthalazinone, (1-methylethylidene)hydrazone (9CI) (CA INDEX NAME)



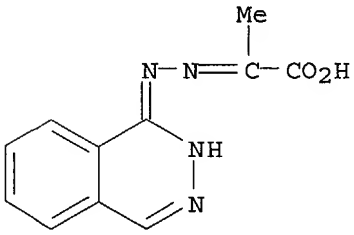
RN 61641-43-8 CAPLUS
CN Benzaldehyde, 4-methoxy-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



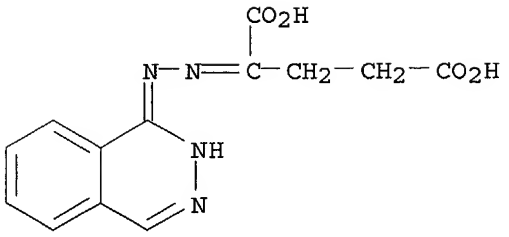
RN 67173-21-1 CAPLUS
CN 2-Butanone, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



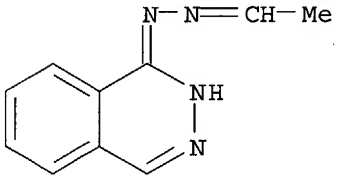
RN 67536-13-4 CAPLUS
CN Propanoic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)



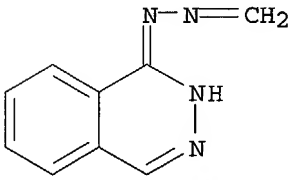
RN 77874-88-5 CAPLUS
CN Pentanedioic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)



RN 82928-49-2 CAPLUS
CN Acetaldehyde, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



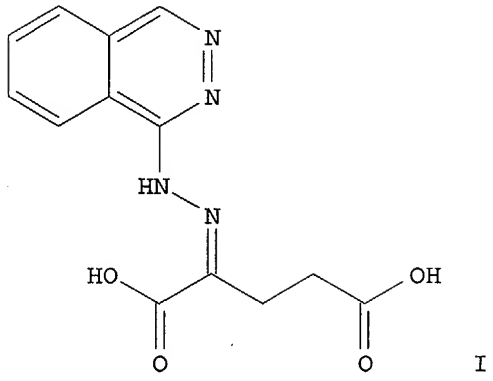
RN 600707-30-0 CAPLUS
CN 1(2H)-Phthalazinone, methylenehydrazone (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:737585 CAPLUS
DOCUMENT NUMBER: 139:265755
TITLE: Stable hydralazine derivative hydrazone pharmaceutical compositions
INVENTOR(S): Barbeau, Donald L.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 62 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003075928	A2	20030918	WO 2003-US6521	20030304
WO 2003075928	A3	20031204		
W: AU, BR, CA, IL, IN, JP, KR, MX, NO, NZ, PH, RU				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
US 2003199512	A1	20031023	US 2002-87951	20020305
US 2003212272	A1	20031113	US 2002-306196	20021127

PRIORITY APPLN. INFO.: US 2002-87951 A 20020305
US 2002-306196 A 20021127
OTHER SOURCE(S): MARPAT 139:265755
GI

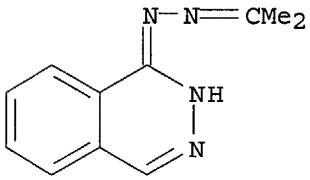


I

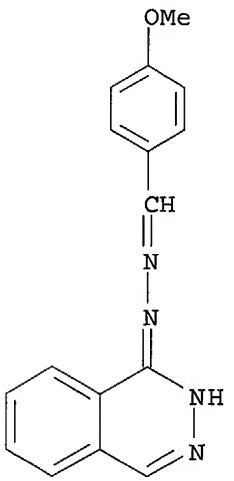
AB Hydralazine deriv. hydrazones such as I were prepd. for stable pharmaceuticals. I and other derivs. were tested for antihypertensive activity and the **stability** of the derivs. detd. in solns.

IT **56173-18-3P 61641-43-8P 67173-21-1P 67536-13-4P 77874-88-5P 82928-49-2P 600707-30-0P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(stable hydralazine deriv. hydrazone pharmaceutical compns.)

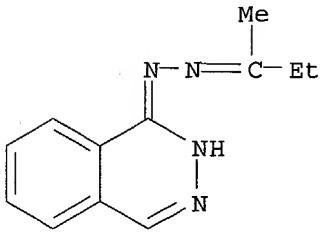
RN 56173-18-3 CAPLUS
CN 1(2H)-Phthalazinone, (1-methylethylidene)hydrazone (9CI) (CA INDEX NAME)



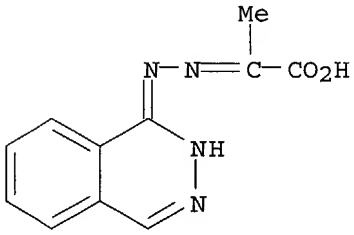
RN 61641-43-8 CAPLUS
CN Benzaldehyde, 4-methoxy-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



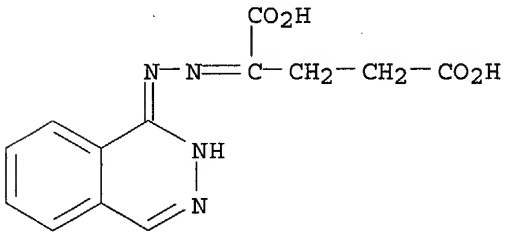
RN 67173-21-1 CAPLUS
CN 2-Butanone, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



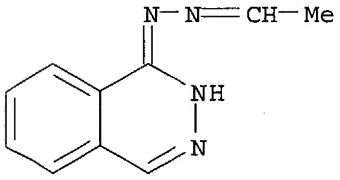
RN 67536-13-4 CAPLUS
CN Propanoic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)



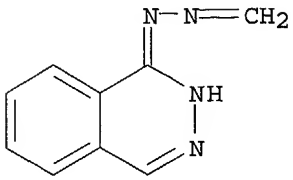
RN 77874-88-5 CAPLUS
CN Pentanedioic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)



RN 82928-49-2 CAPLUS
CN Acetaldehyde, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



RN 600707-30-0 CAPLUS
CN 1(2H)-Phthalazinone, methylenehydrazone (9CI) (CA INDEX NAME)

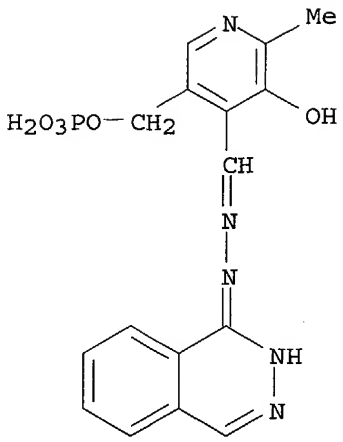


L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:355491 CAPLUS
DOCUMENT NUMBER: 129:130899
TITLE: Kinetic study of the reaction of pyridoxal 5'-phosphate with hydrazino compounds of pharmacological activity
AUTHOR(S): Echevarria-Gorostidi, Gerardo R.; Basagoitia, Andrea; Pizarro, Eliana; Goldsmid, Ruth; Santos Blanco, Jose G.; Garcia Blanco, Francisco
CORPORATE SOURCE: Department Physical Chemistry, University Alcala, Alcala de Henares, E-28871, Spain
SOURCE: Helvetica Chimica Acta (1998), 81(5), 837-844
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta AG
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The kinetics of the reaction between pyridoxal 5'-phosphate (PLP) with carbidopa, hydralazine, and isoniazid, in aq. soln. at variable pH and const. ionic strength of 0.1M was studied spectrophotometrically. The rate consts. of formation and hydrolysis of the resulting Schiff base, and its **stability** were detd. in a wide range of pH. A comparison is made of the formation rate consts. with those of PLP with hydrazine. The reactivity shows the sequence isoniazid > hydrazine > carbidopa > hydralazine in the whole range of pH studied. The Schiff bases studied are more stable than those formed by PLP and hexylamine and as stable as those described for the reactions of PLP with poly(L-lysine) or copolypeptides contg. L-lysine.

IT **13284-03-2**
RL: BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)
(kinetics of the reaction of pyridoxal 5'-phasphate with hydrazino compds. of pharmacol. activity)

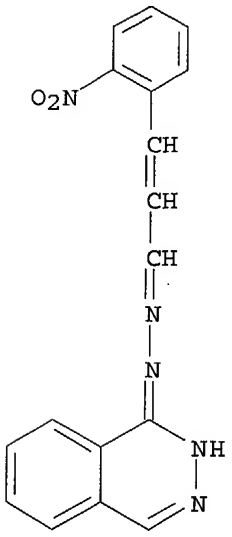
RN 13284-03-2 CAPLUS
CN 4-Pyridinecarboxaldehyde, 3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



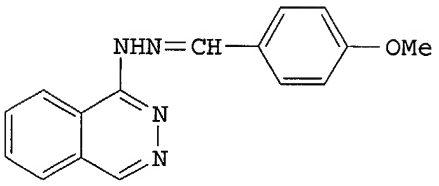
L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:491992 CAPLUS
DOCUMENT NUMBER: 121:91992
TITLE: Spectrophotometric and chromatographic (HPLC) analysis of hydralazine, dihydralazine and hydrazine after derivatization with 2-nitrocinnamaldehyde
AUTHOR(S): Di Pietra, Anna Maria; Roveri, Paola; Gotti, Roberto; Cavrini, Vanni
CORPORATE SOURCE: Dip. Sci. Farm., Univ. Bologna, Bologna, 40126, Italy
SOURCE: Farmaco (1993), 48(11), 1555-67
CODEN: FRMCE8; ISSN: 0014-827X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A simple spectrophotometric method, based on the reaction with 2-nitrocinnamaldehyde, was developed for the detn. of hydralazine (.lambda. = 390 nm) and dihydralazine (.lambda. = 395 nm) in their dosage forms. The method was **stability**-indicating and showed results comparable to those obtained by a ref. HPLC (cyano column) method. Prechromatog. derivatization with 2-nitrocinnamaldehyde, in combination with a preliminary solid-phase extn. (C18 sorbent), enabled sensitive and selective HPLC detns. of hydrazine in hydralazine to be accomplished.

IT **156568-79-5P**
RL: PREP (Preparation)
(prepn. of, in drug detn. by spectrophotometry)
RN 156568-79-5 CAPLUS
CN 2-Propenal, 3-(2-nitrophenyl)-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:417044 CAPLUS
DOCUMENT NUMBER: 111:17044
TITLE: **Stability** problems with hydralazine p-anisaldehyde hydrazone
AUTHOR(S): Semple, Hugh A.; Tam, Yun K.; Croteau, Stephen M.; Coutts, Ronald T.
CORPORATE SOURCE: Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB, T6G 2N8, Can.
SOURCE: Journal of Pharmaceutical Sciences (1989), 78(5), 432-4
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

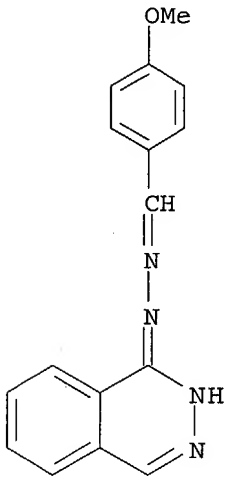


I

AB Hydralazine was detd. in blood by HPLC with UV detection based on derivatization with p-anisaldehyde and formation of I. However, I and its 4-methyl hydralazine analog, used as the internal std., were unstable in fresh canine blood contg. EDTA as an anticoagulant, human citrated blood, and fresh human blood contg. EDTA. The instability may lead to sample decompn. and hence variability and possible errors in detn. of hydralazine concn. p-Nitrobenzaldehyde produced a more stable deriv. with otherwise similar characteristics to I. Thus, p-nitrobenzaldehyde was recommended as a derivatizing agent in hydralazine HPLC detn. in blood.

IT **61641-43-8**, Hydralazine p-anisaldehyde hydrazone
RL: PRP (Properties)
(**stability** of, in blood of human and lab. animals, hydralazine HPLC detn. in relation to)

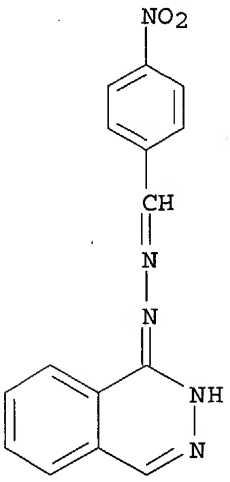
RN 61641-43-8 CAPLUS
CN Benzaldehyde, 4-methoxy-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



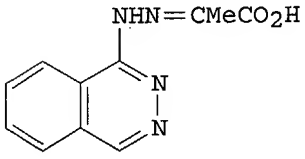
L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1988:485608 CAPLUS
DOCUMENT NUMBER: 109:85608
TITLE: Assay for hydralazine as its stable p-nitrobenzaldehyde hydrazone
AUTHOR(S): Semple, Hugh A.; Tam, Yun K.; Tin, Sarah; Coutts, Ronald T.
CORPORATE SOURCE: Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB, T6G 2N8, Can.
SOURCE: Pharmaceutical Research (1988), 5(6), 383-6
CODEN: PHREEB; ISSN: 0724-8741
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A new method for the detn. of the antihypertensive drug, hydralazine, in human and dog blood is described that involves the addn. of p-nitrobenzaldehyde to blood samples contg. hydralazine, to form a stable Schiff's base, hydralazine p-nitrobenzaldehyde hydrazone. The deriv. is extd. from the blood into hexane and the samples are dried under a N stream. The exts. are then dissolved in mobile phase and analyzed by HPLC. The extd. samples can be stored for at least 7 days at room temp. or at -20.degree.. The sensitivity of the assay is better than 300 pg/mL using 3-mL blood samples, and the range can extend to 640 ng/mL. The **stability** of the extd. samples plus the sensitivity and simplicity of the assay are the main advantages of the method over other selective methods for hydralazine.

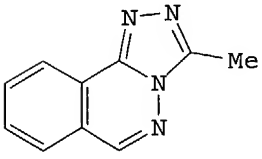
IT **97142-39-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, in hydralazine detn. in blood of humans and lab. animals as, by HPLC)
RN 97142-39-7 CAPLUS
CN Benzaldehyde, 4-nitro-, 1-phthalazinylhydrazone (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:52783 CAPLUS
DOCUMENT NUMBER: 94:52783
TITLE: **Stability** of hydralazine pyruvate hydrazone
AUTHOR(S): Timbrell, J. A.
CORPORATE SOURCE: Dep. Clin. Pharmacol., R. Postgrad. Med. Sch., London, W12 0HS, UK
SOURCE: Journal of Chromatography (1980), 198(2), 150-2
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

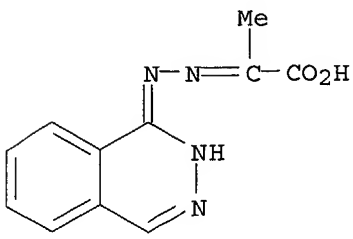


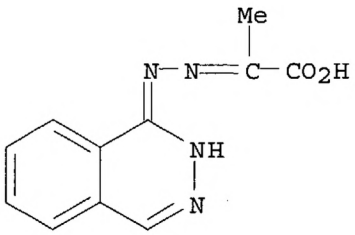
I



II

AB Under acidic conditions in vitro, hydralazine pyruvate hydrazone (I) [**67536-13-4**] decarboxylated to methyltriazolophthalazine (II) [20062-41-3], but at physiol. pH little breakdown occurred. In vivo, I was metabolized to CO2, as shown by expts. with rats.
IT **67536-13-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(decarboxylation of, to methyltriazolophthalazine)
RN 67536-13-4 CAPLUS
CN Propanoic acid, 2-(1-phthalazinylhydrazono)- (9CI) (CA INDEX NAME)




Me
N
N
C
CO2H
NH
N